

**Top Secret**

25X1



**NATIONAL PHOTOGRAPHIC  
INTERPRETATION CENTER**

**P**HOOTOGRAPHIC  
**I**NTERPRETATION  
**R**EPORT

**SOVIET REGIMENT-SIZED EARLY  
WARNING FACILITIES, USSR**

**Top Secret**

25X1

FEBRUARY 1972 25X1

Copy **21**

PIR-002/77

**Warning Notice**  
**Sensitive Intelligence Sources and Methods Involved**  
**(WNINTEL)**

**NATIONAL SECURITY INFORMATION**  
**Unauthorized Disclosure Subject to Criminal Sanctions**



25X1

**DISSEMINATION CONTROL ABBREVIATIONS**

NOFORN-	Not Releasable to Foreign Nationals
NOCONTRACT-	Not Releasable to Contractors or Contractor/Consultants
PROPIN-	Caution-Proprietary Information Involved
USIBONLY-	USIB Departments Only
ORCON-	Dissemination and Extraction of Information Controlled by Originator
REL . . . -	This Information has been Authorized for Release to . . .

Top Secret RUFF

25X1

## SOVIET REGIMENT-SIZED EARLY WARNING FACILITIES, USSR

## ABSTRACT

1. This report contains a review of eight regiment-sized early warning facilities/units in the Soviet Union. A basic description, annotated photographs of four of the installations, selected photographs of early warning radars, a location map, and two tables are included in this report.

## INTRODUCTION

2. The following table contains a list of the installations in the order that they appear in the text:

Installation	Coordinates		Military District	
Taldy Kurgan Army Bks AL 3	45-00-48N 078-26-40E		Central Asian	
Stryy SAM Support Fac 3	49-14-58N 023-50-20E		Carpathian	
Minsk Army Bks Step'yanka SE AL 11	53-54-34N 027-40-17E		Belorussian	
Minsk Army Bks NW AL 6	53-55-34N 027-27-59E		Belorussian	
Chita Army Bks NE	52-10-31N 113-32-06E		Transbaikial	
Omsk AW Radar Fac	54-59-30N 073-39-40E		Siberian	
Gromovo Military Bks	60-43-05N 030-00-50E		Leningrad	
Kharkov Mil Dpo W DX1	49-58-37N 036-07-58E		Kiyev	
Serpukhov Ord Dpo No 45 DO1	54-55-58N 037-24-29E		Moscow	

25X1

\* All of the installations listed above are categorized by IDHS category codes in the National Data Base and they may be subject to change.

3. Eight facilities (Figure 1) which have enough early warning (EW) radars to equip a regiment-sized unit<sup>1</sup> were identified on photography of the Soviet Union and in separate military districts.

4. A comparison of the eight facilities indicates that apparently only three of the facilities contain a definable EW unit (regiment) with a direct ground force tactical role. The Department of the Army estimates that during actual combat operations at least one EW regiment may be under the overall control of a front commander.<sup>2</sup> Highly mobile radars of the EW regiment would move with other ground force units and provide air warning (AW) and EW against hostile aircraft.<sup>2</sup>

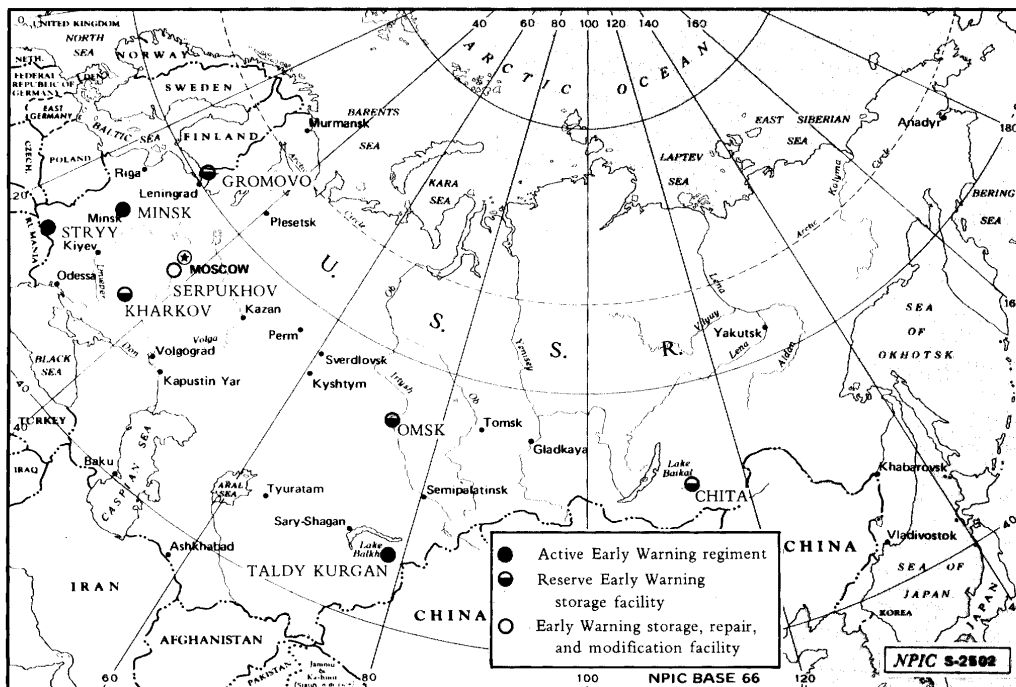


FIGURE 1. LOCATIONS OF REGIMENT-SIZED FACILITIES IN THE SOVIET UNION

25X1

Top Secret RUFF

5. Four of the eight facilities are undetermined as actual units. If they are units, the subordination cannot be determined at the present time. The facilities contain large concentrations of EW radars probably parked in reserve storage. These radars could be used to replace radars at operational PVO Strany AW Radar Sites which may be damaged during hostilities.

6. These radars could conceivably be used at the discretion of the front commander during wartime operations, either to form regimental units similar to the active EW regiment at Taldy Kurgan Army Barracks AL 3 or for replacement of damaged radars as needed.<sup>2</sup>

7. The last installation has equipment and facilities which suggest it may be used for storage, repair, and modification of EW radars. If this facility contains an actual EW unit, the subordination cannot be determined at the present time.

8. For purposes of this report, these eight facilities will be placed in the following categories: a) active EW regiments, b) reserve EW storage facilities, and c) EW storage, repair, and modification facility.

### Active EW Regiments

9. The EW regiments at Taldy Kurgan Army Barracks AL 3, Stryy SAM Support Facility 3, and combined elements of Minsk Army Barracks Stepyanka Southeast AL 11 and Minsk Army Barracks Northwest AL 6 share these following characteristics:

- a. Each is collocated with other active ground force unit(s).\*
- b. The EW vehicle storage areas are active. Various radars have been seen in operational and travel modes, as well as in different locations within these areas.
- c. Sufficient numbers of trucks and prime movers are immediately available, and barracks facilities appear to be sufficient to house the troops necessary to move the unit to the field quickly.
- d. Compared to reserve EW storage facilities, there is a greater proportion of the highly mobile type of radars, such as the LONG TRACK and THIN SKIN.

### Reserve EW Storage Facilities

10. The four facilities in this category, Chita Army Barracks Northeast, Omsk Air Warning Radar Facility, Gromovo Military Barracks, and Kharkov Military Depot West DX1, share these characteristics:

- a. No other ground force unit is collocated with the radar equipment. Two facilities (Omsk and Gromovo) are located with or very near active PVO Strany AW Radar Sites.
- b. Compared to the EW regiments, the vehicle storage areas, in general, exhibit a lack of vehicular activity. The radars are parked in open storage, in sets, and in the travel mode.
- c. There appear to be insufficient numbers of trucks or prime movers to move the equipment and inadequate barracks space to house the number of troops necessary to operate the equipment. To deploy all of these radars at one time would require a time-consuming mobilization of men and equipment from another location.
- d. In comparison with the EW regiments at known ground force facilities, these facilities have a greater number of radars which require considerable setup time, such as BAR LOCK, SIDE NET, and ODD PAIR.

### EW Storage, Repair, and Modification Facility

11. This category consists of one unique facility that comprises both EW radar storage and equipment repair and modification facilities. It has the following characteristics:

- a. There is a separately secured general storage area which contains a quantity of EW radar equipment in sets.
- b. There are large fabrication buildings in which major repairs and modification can be performed.
- c. The installation has barracks/administration buildings.
- d. This is the only rail-served facility of the eight.

\*Stryy SAM Support Facility 3 is not collocated with another ground force unit, but it is immediately adjacent to an installation which houses an SA-4 brigade.

**Page Denied**

Next 1 Page(s) in Document Denied

## BASIC DESCRIPTION

### Active EW Regiments

#### Taldy Kurgan Army Barracks AL 3

12. This installation (Figure 2), 3 nautical miles (nm) southeast of Taldy Kurgan, contains a barracks/administration area that may be sufficient to house troops for all of the units at this facility. The installation contains five administration buildings, 13 barracks (one three-story, one two-story, and 11 single-story), 17 storage buildings, 17 support buildings, two messhalls, a training area, and five vehicle storage areas.

13. Ground force units, in addition to the EW regiment (Figure 3) here, include a motorized rifle regiment, two radio relay battalions (one R-400/404 and one R-410), a reconnaissance battalion, and a medical battalion.

#### Stryy SAM Support Facility 3

14. The facility on the south edge of Stryy houses an EW regiment and contains a barracks/administration area with one multistory administration building, two multistory barracks/administration buildings, a messhall, and seven support buildings; a vehicle storage area; and a training area. It is believed that the EW regiment here came from Lvov Army Barracks Citadel AL 2 [redacted], approximately 35 nm north of Stryy. The EW regiment was last observed at Lvov [redacted] and was first observed at Stryy [redacted]. An SA-4 brigade is just south of this installation at Stryy SAM Support Facility 2 [redacted].

25X1  
25X1  
25X1

#### Minsk Army Barracks Stepyanka Southeast AL 11

15. This facility, 3.4 nm east-northeast of the center of Minsk, contains a barracks/administration area that may be sufficient to house troops for all of the units at this facility. The installation contains two multistory administration buildings, four multistory barracks, six single-story barracks, 22 quarters, three messhalls, several support buildings, seven vehicle storage areas, and a training area. Other ground force units collocated here include a signal regiment, an electronic countermeasures (ECM) air defense battalion, a motor transport unit, and three unidentified units.

16. The EW units at Minsk Army Barracks Stepyanka Southeast AL 11 and Minsk Army Barracks Northwest AL 6 together could form elements of an EW regiment.

#### Minsk Army Barracks Northwest AL 6

17. This facility, 4.6 nm northwest of the center of Minsk, contains a barracks/administration area that may be sufficient to house troops for all of the units at this facility. The installation contains one multistory administration building, one multistory barracks/administration building, a messhall, and four vehicle storage areas. Other ground force units collocated at this barracks include a radio relay battalion and two unidentified units.

### Reserve EW Storage Facilities

#### Chita Army Barracks Northeast

18. This facility (Figure 4), 7.3 nm northeast of Chita, contains a barracks/administration area with one single-story barracks/administration building and ten support buildings; a vehicle storage area; a general storage area with four storage buildings; a POL storage area; and a training area. A radar mound with a BAR LOCK radar was observed in the barracks/administration area. Because of the absence of other ground force units and the lack of sufficient barracks facilities, trucks, or prime movers, the EW equipment (Figure 5) appears to be in reserve storage.

#### Omsk AW Radar Facility

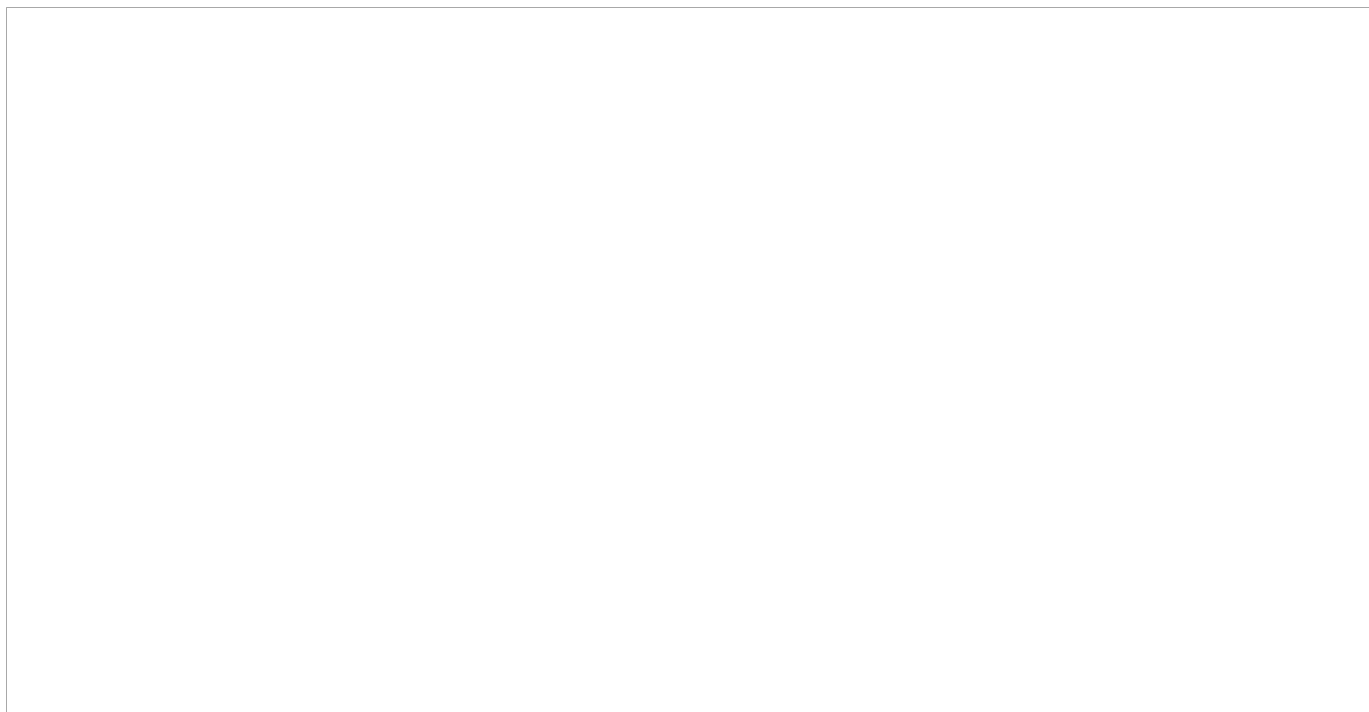
19. The facility (Figure 6), 8 nm east of Omsk, contains a vehicle storage area; a POL storage area; and an operational AW radar site consisting of two AW radar areas (with 11 operating radars), a probable communications bunker area, and a TALL KING area.

20. The absence of ground force units, barracks facilities (only two buildings were under construction), and trucks or prime movers suggests that the radars observed in the vehicle storage area (Figure 7) are in reserve storage.

**Page Denied**

Next 1 Page(s) In Document Denied

25X1



#### Gromovo Military Barracks

21. This facility, 1 nm northeast of Gromovo, contains a barracks/administration area with two single-story administration buildings, three single-story barracks, and seven support buildings; a vehicle storage area; and a POL storage area. An AW radar site, Gromovo Air Defense Sector Headquarters, is approximately 1 nm northwest of this facility. There are no other ground force units here, and the limited amount of barracks, trucks, or prime movers available suggests that the radars are in reserve storage.

#### Kharkov Military Depot W DX1

22. This facility, on the western edge of Kharkov, contains a barracks/administration area with one administration building and three single-story barracks, two vehicle storage areas, and a general storage area with 17 storage buildings. Because of the absence of other ground force units and lack of sufficient barracks, trucks, or prime movers, the EW equipment appears to be in reserve storage.

#### Early Warning Storage, Repair, and Modification Facility

##### Serpukhov Ordnance Depot No 45 DO1

23. This facility (Figure 8), on the northern edge of Serpukhov, contains a barracks/administration area with one administration building, eight barracks (three multistory), and several support buildings; two general storage areas; and a repair and modification area. Several LONG TRACK radars (with sails removed) and eight SA-4 transporter-erector-launchers (four without launch rails) were observed in the repair and modification area.

#### Equipment Observed

24. Examples of the various types of radars seen are illustrated in Figures 9 through 18. Table 1 contains the order-of-battle of the radars, computer vans, and BTR-60PB FAC vehicles observed at each installation; the mission and date of photography used; and the designated category of each facility/unit.

25X1

25X1



Table 1. Radars Observed

Installation	Acquisition					Height Finding		Other		Category
	SPON LOCK If Fig 1B	SPON REST Variant If Fig 1B	SPON REST A If Fig 1B	SPON REST C If Fig 1B	SPON REST Variant If Fig 1B	SPON REST Variant If Fig 1B	SPON REST Variant If Fig 1B	SPON REST Variant If Fig 1B	SPON REST Variant If Fig 1B	(See Note, below)
Taldy Kurgan Army Bn AL 3	2	2	5	6			5	20		Active EW regt
Sovv SAM Subord. Fac 3	2		5	4	3			5	19 18**	Active EW regt
Minak Army Bn Stepanova SE AL 11	1		3		4	1	1	3	13 3	Active EW regt (combined elements from both facs)
Minak Army Bn NW AL 6				4	3			5	12	
Chile Army Bn NE	5	5	12	7	3	5	8	3	49 3	Reserve EW storage
Orsk AW Radar Fac	1**	3	8	3	9		5	4**	33 3***	Reserve EW storage
Grumov Military Bn	6**	20		11	8	6		4	4 59 1**	Reserve EW storage
Khar'kov Mi Dep W DX1	5	2	3	10	1		1**	1	23 1***	Reserve EW storage
Serpukhov Div Ops No 46 DD1	2	16			18		6	23	65	EW stor., repair, & modification

\*The radar observed SPON REST Variant was previously read out as SPON REST A with SPON REST Variant antenna model. It has never been seen in the operational mode on Khar'kov facility.  
\*\*Number probable.  
\*\*\*Number possible.  
Note: The radar observed at the reserve EW storage facilities were in sets and in the radar mode.

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

25X1

REFERENCES

25X1

DOCUMENTS

1. DIA. DDI-1100-2-75, *Soviet Ground Force Organizational Guide*, Jun 75, p 236 (SECRET)
2. Dept. of Army. *Handbook on the Tactics and Operations of the Soviet Army (U)*, Mar 75, pp 91 and 39-41 (SECRET)

REQUIREMENT

Project 121200NA

25X1

## List of Conversion Factors by Classification

### UNITS OF LENGTH

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
MILLIMETERS	0.0394	INCHES
CENTIMETERS	0.3937	INCHES
INCHES	25.4000	MILLIMETERS
INCHES	2.5400	CENTIMETERS
FEET	0.3048	METERS
FEET	0.0003	KILOMETERS
YARDS	0.9144	METERS
METERS	3.2808	FEET
METERS	0.0005	MILES(NAUTICAL)
METERS	1.0936	YARDS
KILOMETERS	3280.8400	FEET
KILOMETERS	0.6214	MILES(STATUTE)
KILOMETERS	0.5400	MILES(NAUTICAL)
MILES(STATUTE)	1.6093	KILOMETERS
MILES(NAUTICAL)	6076.1154	FEET
MILES(NAUTICAL)	1.8520	KILOMETERS
MILES(NAUTICAL)	1852.0000	METERS

### UNITS OF MASS

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
KILOGRAMS	2.2046	POUNDS(AVOIR.)
POUNDS(AVOIR.)	0.4536	KILOGRAMS
SHORT TONS	0.9072	METRIC TONS
METRIC TONS	1.1023	SHORT TONS
METRIC TONS	0.9842	LONG TONS
LONG TONS	1.0160	METRIC TONS

### UNITS OF VOLUME

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
LITERS	0.2642	GALLONS
LITERS	0.0063	BARRELS(POL)
LITERS	0.0010	CUBIC METERS
GALLONS	3.7854	LITERS
GALLONS	0.1337	CUBIC FEET
GALLONS	0.0238	BARRELS(POL)
GALLONS	0.0038	CUBIC METERS
BUSHELS	0.0352	CUBIC METERS
CUBIC FEET	7.4805	GALLONS
CUBIC FEET	0.1781	BARRELS(POL)
CUBIC FEET	0.0283	CUBIC METERS
CUBIC YARDS	0.7646	CUBIC METERS
BARRELS(POL)	158.9873	LITERS
BARRELS(POL)	42.0000	GALLONS
BARRELS(POL)	5.6146	CUBIC FEET
BARRELS(POL)	0.1590	CUBIC METERS
CUBIC METERS	1000.0000	LITERS
CUBIC METERS	264.1721	GALLONS
CUBIC METERS	35.3147	CUBIC FEET
CUBIC METERS	28.3776	BUSHELS
CUBIC METERS	6.2898	BARRELS(POL)
CUBIC METERS	1.3080	CUBIC YARDS

### UNITS OF AREA

<i>IF YOU HAVE</i>	<i>MULTIPLY BY</i>	<i>TO OBTAIN</i>
SQUARE CENTIMETERS	0.1550	SQUARE INCHES
SQUARE INCHES	6.4516	SQUARE CENTIMETERS
SQUARE FEET	0.0929	SQUARE METERS
SQUARE YARDS	0.8361	SQUARE METERS
SQUARE METERS	10.7639	SQUARE FEET
SQUARE METERS	1.1960	SQUARE YARDS
SQUARE METERS	1.0000	CENTARES
SQUARE METERS	0.0002	ACRES
SQUARE METERS	0.0001	HECTARES
ACRES	4046.8564	SQUARE METERS
ACRES	0.4047	HECTARES
HECTARES	10000.0000	SQUARE METERS
HECTARES	2.4711	ACRES

**Top Secret**



**Top Secret**